**Chapter 17 – Human Health and Environmental Risks**

**Module 56 – Human Disease**

1. Disease –

2. Describe three types of diseases and list an example of each.

3. Identify the top three leading causes of death in the world and the percentages.

4. Identify the top three infectious diseases in the world and the percentages.

5. What is a health risk?

6. List the top three health risks among low-income and high-income nations. Include

percentages.

7. What is a pathogen? List two examples.

8. Differentiate between epidemic and pandemic.

9. Give a brief description of the following diseases.

a. Plague

b. Malaria

c. Tuberculosis

d. HIV/AIDS

e. Ebola

f. Mad Cow Disease

g. Swine Flu

h. Bird Flu

i. SARS

j. West Nile Virus

10. Review Questions p. 600.

**Module 57 – Toxicology and Chemical Risks**

1. List the five categories of chemicals which can harm organisms. Then list two

examples of each category and the effects on humans.

2. List and describe three techniques scientists use to determine harmful concentrations

of chemicals.

3. Define LD50, ED50, and sublethal effect.

4. Which agency regulates the testing standards in the United States? Which act gives

that agency the authority to regulate many chemicals?

5. Do the Math Your Turn. p. 607.

6. List and describe five factors that determine the concentrations of chemicals that

organisms experience.

7. Review Questions p. 611.

**Module 58 – Risk Analysis**

1. Environmental Hazard –

2. Describe the process of risk analysis.

3. List the top five causes of death in the United States.

4. Describe a case study in risk assessment.

5. Describe two different approaches to managing risk.

6. What is the Stockholm Convention/

7. What is REACH?

8. Review questions p. 617